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(54) Title: CHIMERIC ALPHA Q-GUSTDUCIN G-PROTEINS

(57) Abstract:  $G_{\alpha\text{-Gustducin}}$  chimeric G-proteins that functionally couple to G-protein coupled receptors. The chimeras can be expressed in heterologous cell systems and can be used as the basis of assays for identifying modulators of taste response, in particular bitter, sweet or umami taste responses.

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# INTERNATIONAL SEARCH REPORT

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PCT/CH 03/00830

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K14/47

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, PAJ, MEDLINE, Sequence Search

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>MODY SEJAL M ET AL: "Incorporation of Galphaz-specific sequence at the carboxyl terminus increases the promiscuity of Galphal6 toward Gi-coupled receptors" MOLECULAR PHARMACOLOGY, BALTIMORE, MD, US, vol. 57, no. 1, January 2000 (2000-01), pages 13-23, XP002199066 ISSN: 0026-895X abstract page 16, right-hand column, paragraph 3 - page 18, right-hand column, paragraph 1 page 21, right-hand column, paragraph 2 page 22, left-hand column, paragraph 2 ----- -/-</p>	1-15

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KOSTENIS E: "Is Galpha16 the optimal tool for fishing ligands of orphan G-protein-coupled receptors?" TRENDS IN PHARMACOLOGICAL SCIENCES, ELSEVIER TRENDS JOURNAL, CAMBRIDGE, GB, vol. 22, no. 11, 1 November 2001 (2001-11-01), pages 560-564, XP004320245 ISSN: 0165-6147 the whole document	1-15
A	WO 02/36622 A (SENOYX INC ; XU HONG (US); YAO YONG (US)) 10 May 2002 (2002-05-10) "Galpha <sub>q</sub> rotein variants and their use in the analysis and discovery of agonis and antagonists of chemosensory receptors"	1-15
P,X	UEDA TAKASHI ET AL: "Functional interaction between T2R taste receptors and G-protein alpha subunits expressed in taste receptor cells." JOURNAL OF NEUROSCIENCE, vol. 23, no. 19, 13 August 2003 (2003-08-13), pages 7376-7380, XP009033223 ISSN: 0270-6474 abstract; figure 1 page 7376, right-hand column, paragraph 2 page 7379, left-hand column, paragraph 2 - right-hand column, paragraph 1	1-15

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0236622	A	10-05-2002	AU 1340902 A	15-05-2002
			WO 0236622 A2	10-05-2002
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